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PUBLISHED BY MICROLINKS EASTMAN, 5400 SHEPPARD AVENUE EAST, SUITE 100, SCARBOROUGH, ONT. M1S 4T7

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CD-R quality not based on color

I would like to clarify some points made in the article "Time for successful CD recording" in August issue of TOP, under the "About drive colors" and "General handling precautions" subsections.

First of all, there are three main types being used as CD-Rs: metal-burning (copper, gold, silver), dye (cyanine, phthalocyanine) and all-true (two or three years' life). All CD-Rs were made with a gold reflective layer. With the gold layer, a cyanine

dye CD-R looks green on the recording side (so people call this green dye), a phthalocyanine dye CD-R looks gold (so people call this gold dye), and all-true looks blue (so people call this blue dye). Test with a standard spring showed that cyanine dye CD-Rs would have a shelf life of 40 years and phthalocyanine dye CD-Rs would have a shelf life of 150 years.

But, considering many manufacturers preferred to use silver instead of gold because it costs less and has better reliability. The main-

has also made it more difficult to tell the type of dye by just looking at the color.

The following is a list of CD-R dyes used by the major disc manufacturers listed in order of 1998 worldwide market share: TDK (cyanine, looks blue), Ricoh (phthalocyanine, looks dark blue), Kodak (phthalocyanine, looks dark green), Inland (cyanine, looks green), SONY (cyanine, looks green), Matsushita (phthalocyanine, looks gold), Pioneer (phthalocyanine, looks light blue) and Pyral Systems

(looks green). There are all top CD-R brands and most of them are cyanine dye (cyanine dye is themselves unable to determine the quality or longevity of a CD-R by judging only on the color of the dye or the type of the dye used).

In regard to cleaning dirty CD-R discs, I would not recommend using acetone as to spray on it especially on the recording side. Tests have indicated that acetone can melt and make microscopic cracks on the CD-R.

Chuan Ding

Program Data Duplication

Appalled at the view

I find it appalling that you would use the Veronico 2773 in the list not instead of the newer 2473 or at least use the 2173 which has been out for quite some time but only suggests the 2473. Not only that, but I am not sure you might want to be impartial, but then you used the latest LG 240000. This makes no sense. So use the old model of one brand and not of another. Why don't we just compare a Pentium III 550 with an Opti 448 333? Designed

SC replies: When we prepare each List Test, we make all manufacturers in relevant products based on a certain set of parameters. The number category is a fairly broad one, and each have a range of different models. Because of this, there will always be a bit of a range when we look at numbers.

What you see in the August List Test are the models that each of the companies chose to send. The 2773 was the model Veronico chose for the test, as it was a relatively new model for them and one of their best items.

Font failly

I have installed WordPerfect 2000 and I installed too many fonts. Now I would like to know how I can just have the default fonts. I tried a few times to uninstall and went to the fonts option. I am supposed to right click the boxes to not get the default fonts again, and it doesn't on the bottom of the dialog box the question of default fonts, but it does not show the default fonts in the WordPerfect program, even though after I make the selection for default fonts I install again.

I did notice that beside the fonts that I do have, it shows the word "Installed," but the boxes don't allow me to check or uncheck any installed fonts. I am not sure if I have to reinstall the whole program again or if there is another way.

Mary, a little bit 1

GB replies: You can simply open the Fonts folder (as found in the Control Panel, or by typing "Fonts" into the Start/Menu Bar...), command-click pressing Enter and drag the fonts you don't want to a different folder. For example, you might want to have a folder in "My Documents" or somewhere else on your hard drive called "Extra fonts."

Leave the fonts with red crosses where they are. They are system fonts.

Now also that when you reverse the procedure to reinstall the fonts, don't a default checkbox on the "Install New Font..." dialog box to "Copy fonts to fonts folder" when installing. This leaves a copy in the "Extra fonts" folder if it is placed. If you don't want to do this it would not move anything, but would of course make some hard disk space, which the "Copy fonts to fonts folder" box in the Install New Font... dialog box, as found in the font window's file menu.

If you want to get REALLY fancy, you can use a dedicated font management program, such as the one Cool provides with CorelDraw as Adobe sells an Adobe Type Manager Deluxe. I don't believe, personally. ☺

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The SuperScript 1800 is powered by a 500 MHz 44-bit PowerPC RISC processor and comes standard with PCL 6e, 64-bit Resolution Level 3, a optional 120-MHz standard configuration includes 32 MB of RAM, upgradeable to 128 MB using standard 75-pin SDRAM. A bi-directional parallel

interface is standard, while a 10/100/100-TB Ethernet network interface card is optional. Also optional is a 500-sheet/40-volume-capacity 300-sheet standard capacity and 100-sheet optional capacity (they are not quite enough)—OT.

And Flat panel monitors too

NEC Technologies has also introduced three LCD monitors, each priced starting at less than \$2,000. The 15-inch LCD1515M, LCD1515W and LCD1525W carry estimated street prices of \$2,000, \$2,479 and \$1,899, respectively.

All are 75-inch models, and the most expensive of the trio, the LCD1525W supports up to 1,024x768 resolutions. It incorporates a four-part LED back and one integrated speaker. Housed in a black cabinet, the



LCD1525W

LCD1515M weighs 4.5 kg (10 lb) and measures only 15.7x 34x 9.2 in. deep.

The LCD1515W incorporates 200/100 or 100/100 technology that allows for viewing angles of up to 80 degrees. The monitor will also pivot, allowing users to view the screen in either portrait or landscape orientation.

The LCD1525W is the space-saver model. It weighs just under 4 kg (9.0 lb) and is only 5.4 cm (2.1 in.) deep—OT.

NEC Technologies Canada, 800/980-1040

<http://www.nec.ca>

Perfect score in Pac-Man



Photo: Hypermedia. In one hour, when alone, 14-year-old Billy Mitchell got perfect score.

Shortly before the 20th anniversary of Pac-Man, a Florida man involved a perfect score playing the beloved arcade game. It took Billy Mitchell, a 13-year-old Fort Lauderdale test score manufacturer, nearly six hours to accomplish the feat at the Jannet Family Fun Centre in Waco, Texas, N.Y. the second largest arcade in the world.

Using a single quarter, he scored 3,333,333 points—the maximum possible for the game. To achieve the score, a player's Pac-Man has to eat every alien-owned dot, every alien, every blue man and every

Continued on page 22

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PI 550MHz 512KB L2 ... \$1,825

Pentium III - MediaMax Pro

Intel Pentium III/75 Processor with MMX Technology
Pentium III 440MHz AGP/PCI/ISA Main Board
Internal 1.5 Cache
4-440 MHz Pcs 500MB (PC133) SDRAM
1.44MB Floppy Drive
4-500 MHz 500-600 KHz Best Drive
Ultra DMA33 Card, w/ 133MHz SDRAM
32GB Onboard Parallel, 32GB Port
On Board 500MHz SDRAM & 20/100MHz LAN
4x4 Speed (DMA3, CB-ROM Accelerator)
13" Flat Bed Low Bed, 8700A Monitor Ref
ATX Main Tower Case with CNA Power Supply
307 Amps Windows 95 Keyboard/MS/2 Mouse
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PI 400MHz 512KB L2 ... \$1,465
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Power Station

MMX AGP/PCI/ISA Main Board (75 Pin SDRAM)
700MHz 160 Pin High Performance SDRAM PC 136
1.44MB Floppy Drive
4-500 MHz 500-600 KHz Best Drive
Ultra DMA33 Card, w/ 133MHz SDRAM
32GB Onboard Parallel, 32GB Port
On Board 500MHz SDRAM & 20/100MHz LAN
4x4 Speed (DMA3, CB-ROM Accelerator)
13" Flat Bed Low Bed, 8700A Monitor Ref
ATX Main Tower Case with CNA Power Supply
307 Amps Windows 95 Keyboard/MS/2 Mouse
2 Year Parts & Service Warranty

Power Station Plus

MMX AGP/PCI/ISA Main Board
700MHz 160 Pin High Performance SDRAM
1.44MB Floppy Drive
4-500 MHz 500-600 KHz Best Drive
Ultra DMA33 Card, w/ 133MHz SDRAM
32GB Onboard Parallel, 32GB Port
On Board 500MHz SDRAM & 20/100MHz LAN
4x4 Speed (DMA3, CB-ROM Accelerator)
13" Flat Bed Low Bed, 8700A Monitor Ref
ATX Main Tower Case with CNA Power Supply
307 Amps Windows 95 Keyboard, MS/2 Mouse
2 Year Parts & Service Warranty

Superior Station 30 (MMX)

MMX AGP/PCI/ISA Main Board w/ 133MHz Cache
700MHz 160 Pin High Performance SDRAM PC 136
1.44MB Floppy Drive
4-500 MHz 500-600 KHz Best Drive
Ultra DMA33 Card, w/ 133MHz SDRAM
32GB Onboard Parallel, 32GB Port
On Board 500MHz SDRAM & 20/100MHz LAN
4x4 Speed (DMA3, CB-ROM Accelerator)
13" Flat Bed Low Bed, 8700A Monitor Ref
ATX Main Tower Case with CNA Power Supply
307 Amps Windows 95 Keyboard, MS/2 Mouse
2 Year Parts & Service Warranty

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366MHz w/128KB L2 ... \$ 780
400MHz w/128KB L2 ... \$ 795
433MHz w/128KB L2 ... \$ 825
466MHz w/128KB L2 ... \$ 865

AMD K6-2 3D

K6-2 30 350 \$ 725
K6-2 30 400 \$ 775
K6-2 30 450 \$ 785
K6-2 30 475 \$ 835

Video Graphics Adapters

ATI 3D Rage AGP/PCI/ISA \$1,199.00
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5121E	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121F	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121G	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121H	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121I	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121J	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121K	P133	32MB	4.8GB	14.1" TFT	\$2,199
5121L	P133	32MB	4.8GB	14.1" TFT	\$2,199

ThinkPad 390E

Intel Celeron 300MHz MMX
32MB Memory
3.2GB Hard Drive
34N, CD-ROM/Modem
34Kbps Fax Modem
12.1" TFT Display

Model	CPU	RAM	HD	CD Display	Price
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199
390E	Celeron 300	32MB	3.2GB	14.1" TFT	\$2,199

PGMCA / PC Cards

Model	CPU	RAM	HD	CD Display	Price
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
PGMCA 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199

Carrying Case

Model	CPU	RAM	HD	CD Display	Price
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199
Carrying Case					\$199

FUJITSU

Model	CPU	RAM	HD	CD Display	Price
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199

COMPAG

AMD K5 100MHz CPU
32MB RAM exp. to 1GB
4.8GB Hard Drive
12.1" TFT Display
Modem/Fax Modem/USB

Model	CPU	RAM	HD	CD Display	Price
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199
8112	P133	32MB	4.8GB	14.1" TFT	\$2,199

Kingston

Model	CPU	RAM	HD	CD Display	Price
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Kingston 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199

Academy

Model	CPU	RAM	HD	CD Display	Price
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199
Academy 1000	P133	32MB	4.8GB	14.1" TFT	\$2,199

TOSHIBA

Tecra 3000

366MHz Intel Pentium II
64MB RAM exp. to 256MB
9.3GB Hard Drive
NoModem 256 Bit Video
14.1" TFT Display
34X CD ROM
Built-in Sound System
V90 Kbps Modem

Model	CPU	RAM	HD	CD Display	Price
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199
Tecra 3000	Pentium II	64MB	9.3GB	14.1" TFT	\$2,199

Satellite 4000

400MHz Intel Celeron
64MB RAM exp. to 1GB
5.4GB Hard Drive
Toshiba Graphics w/256K
14.1" TFT Display
24X DVD ROM
14Kbps V90 Fax Modem
Built-in Sound System

Model	CPU	RAM	HD	CD Display	Price
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 4000	Celeron	64MB	5.4GB	14.1" TFT	\$2,199

Satellite 2500

400MHz Intel Celeron
64MB RAM exp. to 1GB
5.4GB Hard Drive
Toshiba Graphics w/256K
14.1" TFT Display
24X DVD ROM
14Kbps V90 Fax Modem
Built-in Sound System

Model	CPU	RAM	HD	CD Display	Price
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199
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Satellite 2500	Celeron	64MB	5.4GB	14.1" TFT	\$2,199

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What's new**Continued from page 22**

to use real-time with full rendering—a first other 3D software achieve only with some frame mode. The software includes extensive toolboxes for modeling (skeletoanimation, 3D text and deformation effects, for example), rendering (including texture mapping, instant lighting, and direct painting) and animation (inverse kinematics, for example). Media 3D is expected to retail for \$499 to \$599.

You can download a "light" version, Media VR, for a free 30-day trial from the Digital Innovation's Web site (be warned: it is a 15-MB download). Also the Web, Media VR is CD329.

Digital Innovation's marketing manager Brenda Abo, says Media 3D will be marketed to the high-end 3D market, while Media VR will be a general-purpose tool suitable for creating Web content.—CT

Digital Innovation, <http://www.digital-innovation.com>

A PC is not a toy...well, not totally

Markham-based PC manufacturer Paradox Computers has joined forces with Mattel to produce a line of PC packages based on the latest Barbie and Ken. Which toys?

Paradox says the new PCs have been designed to "bypass the monster" of the popular toy brand. The packages each include



an Intel Celeron-based computer, monitor, keyboard, speakers, mouse, mousepad and CD holder. The Barbie PC also includes a digital camera.

The Ken Windows PC and peripherals are royal blue with the signature yellow and orange stripes. The Barbie PC and peripherals are a more typical PC: gray splashed with pink, blue, purple and pastel flowers.

While the packages have top appeal, they are loaded with extensive software libraries that include a healthy dose of educational titles from The Learning Company, along with Barbie and Ken Windows games and educational titles.

A Paradox retail officer says the packages are expected to sell for less than \$1,000, and can be ordered online or by phone starting in mid-September. Paradox is producing the PCs for both the Canadian and U.S. markets.—M

Paradox, <http://www.paradox.com>
<http://www.barbiepc.com>

No surprise, surfers watch less TV

According to Nielsen Media Research, households with Internet access watch on average 32 percent less television than households without. The company says this holds true in about 33 (over) hours of television viewing per month. Note the sample was of U.S. households, so that while the trend may be the same in Canada, the specific numbers may differ.—CT

ATI Agony 2000 fast and cheap

ATI has announced the R7000 a \$149 graphics card with 32 MB of memory, 32-bit true color acceleration and full hardware DVD acceleration. ATI is aiming the card at system builders and says it will "match the perception that [low-end PCs] are featureless and unable to handle today's latest games and popular applications."—CT

ATI, <http://www.atitech.com>

What's New is written and edited by Jürgen Johnson, Katie Schepel-Ashertz and David Sankin.

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Tablets: (slow...)**CRW6416S: (new...)**

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Interface	Hard/Softbus/Cloud	SCSI2
Data Capacity	83 Lanes/Space Tablet	650 MB, 74 sec
Media	Clay or Stone	CD Recordable/CD Rewritable
Block Transfer Rate	Cloud Till You Burst	5 MB/sec (average), 10 MB/sec (peak)
Data Buffer Size	2 Inch Cloud	2 MB (600 sec)
Access Speed	1 Cloud-Start/20 Seconds	180 sec (random)
Audio Out	Only if Throat Stomached	Play: Range 70-20,000 Hz (low end)
Power Consumption	Basic Food Groups	11 Water Muc
Power Supply	Muscle Only	5V +/- 5%, 12V +/- 10%
Demonstration	See 327 MB's Egg!	145 x 40 3 x 15 1 mm
Weight	See 327 MB's Heavy!	900g



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A-Open PS/2 Mouse w/Pad
MS Windows 95 SE CD
15" Hercules 500A-28 Monitor

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Intel Celeron 450MHz CPU add \$40

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64MB SDRAM Memory
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NOTEBOOK SPECIALS



Nice work if you can get IT

Information technology training is a sure-fire career move

By Bruce Macdonald

IT is not about people running around with pocket protectors doing complex algorithmic programming all day, it's about using technology to solve business problems.

—Bruce Macdonald, CIM

The average works something like this: it is possible for you to enter a "core job" with pay up to \$170,000 a year for the first, in order to enter you must give up your current job for close to a year—and the cost of training can be as high as \$10,000. The chance of winning, on the other hand, is 75 percent, and it is very likely somebody will lead you the money today in

The part of that little story that worries people most is the whopping size of the entry fee. However, with only a bit of reflection, that 75 percent chance of winning the prize quickly requires their interest.

All of which obliquely describes the current situation when it comes to IT (information technology) training in Canada. It can cost upwards of \$20,000 to enter some of the many private IT training schools that have sprung up across the country, but some of these schools have a 75 percent job placement rate—and IT jobs can pay upward of \$110,000 per year. You will likely have to attend classes full time for the duration of the most rigorous programs, but many accredited schools qualify for the same government student loan programs as colleges and universities.

Becoming IT means labor shortages
Ann LeVeyl of the National Research

Council (NRC) explains that the number of private IT training schools is rapidly increasing in response to several trends that show growth projections for e-commerce and other commercial applications of information technology that are "so large, and the impact so fundamental on all parts of the economy that there's a very high level of consensus about the importance of developing the human resources skills and talents that are needed." In other words, there's a real shortage of qualified applicants for many IT jobs.

Though actual statistics are difficult to pin down, Statistics Canada, Information Canada's Skills 2000 program monitors, cites studies suggesting that up to 40,000 IT jobs are currently unfilled in Canada due to a lack of appropriately trained and experienced candidates. On the most conservative side, the Software Human Resources Council (SHRC) of Canada estimates a present shortage of 30,000 "high-tech" workers.

Additionally, Dave Tait, regional vice-president with Information Technology Institute (ITI)—which operates its campuses in Canada and one in the U.S.—cites statis-



tics from the Computer World Conference held in July that say there are 494,000 unfilled IT jobs in the U.S. industry. Any of these numbers ought to be more than encouraging for someone considering an IT career.

IT covers a big ocean

Essentially the term IT encompasses all aspects of managing and processing information in the computer age. Any job that involves working with computers hardware or software, computer networks, or the Internet is a job with an IT component. Anyone whose job specifically involves designing,

developing, supporting or managing those items is what we're calling an IT job.

"What many people don't realize is that information technology is important in almost all sectors of the economy, not just computer-oriented industries," says LeVeyl. "You cannot look at an industry today and not find applications of information technology as a very important component of that business. There really is a growing reality."

Meyer agrees. "Almost every job or career you can think of now has a computer component to it. Data clipping and recording, for example—you have to have database expertise to keep track of inventory and you have to know how to use the Internet for delivery and mailing notes."

But IT is a job specifically that are going to bring right now. Looking by the NRC, the SHRC and even ITI jobs that most urgently need to be filled in Canada including product development managers, systems analysts and project managers. LeVeyl notes a

time of Microsoft and the NRC, Tait adds that the types of jobs IT graduates largely end up to are systems analysts, software application development, microcomputer support specialization, LAN (local area network) administration and IT consulting.

Public or private schools?

Attending a student's or even bachelor's degree in any subject requires the kind of time, expense and dedication that many people often can't or haven't the inclination to afford. This is where private IT training enters the picture. The word is out among job seekers, and there's nothing a career change, that IT is a burgeoning field of employment. Entrepreneurs are only too happy to tap into this lucrative market. Unfortunately as the establishment of private training schools rapidly grows, so grows the confusion among potential students (and, provided counseling) as to how to choose a school.

Continued on page 42



Students and instructor in a CIM computing lab.

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More work if you can get it

Continued from page 28

"Our Canadian public school system is simply overwhelmed and understaffed and basically just can't keep the supply of qualified graduates up with demand," says LeDroit. "In the meantime, the private sector has seen a market opportunity and jumped in with exponential growth through private sector IT training programs. From small independent schools that teach a specific certification for a specific kind of software up to the very sophisticated, multiple campus schools, which offer highly comprehensive programs of IT training for just about all aspects of skills needed by potential employers."

It is important to realize, however, that much of the process that business colleges and universities is oriented toward quality control—ensuring that the courses offered, the course content and the method of instruction, are all at a standard that can be backed up by a successful public institution. Private schools usually bend by those same requirements, as potential students should take a really close look at any private school before enrolling. There are plenty of schools out there advertising and promoting their business, but everyone should be aware that they might make promises they simply can't keep.

This has become a very important consideration when choosing a school because employers are getting more sophisticated in identifying job needs as well as in recruiting potential employees to fulfill those needs. Many employers, for example, have recognized the need for skills currently considered to be "soft skills." These include such abilities as critical thinking, the ability to analyze a problem, communication (oral, writing and speaking effectively), interpersonal skills (the ability to work with or lead a team) and project management (time, resource and personnel management).

Private sector schools have traditionally provided only specific training directed at specific software or IT applications, which left businesses to provide "vocational" as opposed to "general" graduates. And the type and style of employment a graduate can expect can be greatly influenced by whether or not they have those soft skills.

But Brian McMillan chief executive of CIBC Education Corp.—one of Canada's leading private IT training organizations with its campuses across the country—explains how that situation is rapidly changing. It would say the main advantage to attending a good private IT school is that you are dealing with the application of skills that employers are looking for, not the theory of computing as taught by universities. Our customers (not so much the employers as the students, so we often propose that it is much stronger than the claim so many years ago) by a career step but that it is much more focused on what the employer needs.

ITV Training, not surprisingly, is keen that option. "I wouldn't want to look inter-

net—I think they probably have their place—but what we're trying to do is work collaboratively with industry to develop a curriculum based on what industry wants today," he says. "And, in most cases, even what industry wants tomorrow. Of course, the technical skills are very important to the employers we deal with, but what we also realize is that graduates have the soft skills. Employers are constantly looking for the technical abilities that they've learned in the classroom but also having the ability to learn."

McMillan notes that with education that's oriented toward employment, "you need to have critical thinking, teamwork, communication, all of those things" because "the employers specifically need those skills in job candidates."

As an example of meeting employers needs for soft skills, McMillan cites how CIBC selected a training module in database over other requests by CompuLink Computer Corp. "What is different between private and public IT training is that universities have an extremely limited view of training and that involves more general education that we absolutely do not do," he says.

The debate of university and college versus private IT training is somewhat moot at this point because all seem to agree that, at least in IT training, you are primarily judged in terms of your abilities as opposed to your academic designation—it really boils down to whether you can do the particular job. "It's the application of skills," says McMillan. "What we do in IT is really control on your intelligence and ability to learn. You need a good foundation in math and an orientation toward logic, and a desire to use technology to solve business problems."

McMillan points out that as many as 40 percent of CIBC students earn with some top official college or university education—partial or full degrees and diplomas. Unfortunately, their academic achievements didn't lead to the employment outcomes they had hoped for.

There are exactly the same dynamics in IT. Many students are secure university graduates with liberal arts and even science degrees but just aren't able to get jobs that reflect their level of education.

If you're looking for a career or looking to change the role you have now, or even looking to move further ahead in your current employment, IT training will be one of the smartest investments you'll likely ever make because it leads. The employers are just waiting to snap you up or promote you on graduation day.

A booklet worth getting

The Institute for Computer Studies (a division of CIBC) has published an excellent booklet that explores all of these points in greater detail. Entitled *The One Guide the Canadian Guide to the World of Information Technology*, it can be ordered over the Internet, downloaded as a PDF directly contacting a CIBC computer.

**Up to 40,000
IT jobs are
currently
unfilled in
Canada due to
a lack of
appropriately
trained and
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—Elizabeth Meyer
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Working with a technical agency

Ten tips from an IT recruiter

By Michael Pak

The growing need for qualified and skilled information technology (IT) professionals has prompted many companies to rely more heavily on technical staffing or recruiting agencies to meet their workforce needs. This, in turn, has raised the growth of technical recruiting firms.

If you are looking for a job in the field, chances are good that you will encounter such an agency. As a technical recruiter in the IT sector, I have offered many candidates on their job search strategies. Following are 10 suggestions for working with a technical agency to get IT job leads.

1. Research

Agencies are listed with resumes daily. The most important aspect of research is to understand what the agency does. Job descriptions, references, education, experience and work history details are among the critical information. Contact is most important than presentation and you should spend the bulk of your time on the most important and specific details of the resume.

If you're having difficulty discerning job details, ask your former employer for your current one. Discussing about past job function and duties. Human resources departments (if you have access to one) usually have a bank of job descriptions that may be helpful. Use this data to get you focus to copy and paste. I have included six key resume items, some resumes have more items are truly positive or when they're items are pointed out of a bank of "I did" from former resumes.

2. Technical skills

The rapid pace of technological change makes it difficult to gain confidence in specific areas and skills. Agencies can assist you in identifying the key areas of "hot" IT development and the types of skills employers are looking for (although this may depend on the specifications of the agency required).

The best source of advice is to inquire and incorporate as many domains of knowledge as possible and secure a global approach to learning. In the information age, the more you know the more you will succeed both professionally and financially.

3. Have a purpose and a plan

A job in the IT sector can mean just about anything, so having a clear objective is important in any job search. Have a set job objective and type for lead before you contact any agency—or if they contact you, make sure to ask the recruiter specific details of the job description to make sure it is what you are looking for. Not having a plan is like trying to find an address without a name or number. —good luck!

4. Highlight core competencies

In the agency world, your worth is often based by your market value. As the two agencies, there is often a demand for what you do best or there is a surplus of those skills that makes you less marketable. The key is maximizing both your and your recruiter's time to outline, either on your resume or in conversation with the agent, what your core competencies are.

It makes it easier for agencies to market specific skills and abilities, especially in IT where specialized skills tend to approximate those in high demand. However, on your strengths and other examples from previous work experience. You never know if what you're doing is exactly what your prospective employer is looking for.

5. Define your profile

Increased technical agencies will ask the candidates the right questions to match job seekers in appropriate placements. Know the following information before you contact any agency:

- Salary, discount, per year, per hour per month and fringe
- Education, previous and alternatives
- Travel, maximum distance for commuting, and on the job
- Job type, contract, permanent, contract to permanent, consulting, or project
- Timeline when can you be available for interview and to start a job
- Work environment, team or isolated, long, manufacturing, or product development

6. Don't interview yourself out of a job

One of the greatest obstacles that disheartening candidates with any waiting in the candidates that meet all the qualifications on paper, but fails miserably at an interview. Let your recruiter know if you have had previous interviewing experience. If you are a newbie or have difficulty with interviews, a good technical recruiter will tell you in a few to have a good job in selling any appointments with the client.

One effective way to impress your prospective employer is to become as much about them as they know about you. Research what they do, their philosophy, history, results, commitment, etc. As much as the employer may be interested in your candidacy, you have to show them you are interested in them as well.

7. Agencies are not all the same

With the explosion of the Internet and technological concepts surrounding it, the last decade there are more agencies in the recruiting industry than ever before. While some agencies you could have confidence they should have a placement history of

more than five years, have positions with technical expertise, they should have the difference between a programmer and a network analyst, for example, have reputable clients, have an established network of associates that will increase your exposure and marketability and last but not least are respectful and courteous when dealing with your contacts.

In many of staffing companies that charge you a registration fee or a sign-up fee or make promises they don't deliver on, research is in your favor. Any other company you are considering working for, talk to others in your field who have had experience with agencies, gauge their results and level of satisfaction.

8. Don't let the agency market itself and yourself

Much like the principle behind the Internet, the more time you spend with technical resumes the more exposure you will have on the job leads. Getting your name out there with frequency will increase the likelihood that a need for your talents will be recognized by a technical agency. Don't be afraid to test your own luck, at the very least you will be remembered when it really matters.

9. Be honest

Your name is on the line. In the IT sector it is in a very easy to come across your integrity whether you are an experienced or novice IT professional. Be honest about your technical problems, employment history, availability and your past (are you looking for work or are you just looking for the money).

In your net on the straight and narrow, your name could become tarnished, agencies will only play candidates who are reliable, dependable and who will follow through with the hiring process. Being too strong and strong enough will only get you ignored by agencies that will remember their agency contacts.

10. If you don't know... ask

Most good technical agencies are proactive in questions from their candidates. When you don't ask something that concerns you it may be detrimental to your candidacy. Ask questions about the agency, its mission, clients, services, the candidates they have placed and the types and numbers of IT opportunities on the block. Think like a client and be prepared for the quote about IT.

Michael Pak is a technical recruiter for IT Solutions Network Group, a Canadian staffing provider for the engineering, manufacturing and information technology sectors for the past 25 years. You can contact him by email at mike@itnetworksolutions.com or call him at 604-675-8844.

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Advice from the insiders

Bruce MacDonell of CIB suggests looking at how well established a school is when trying to find those in operation and what its reputation is—as a good indicator of a quality school. He also suggests you speak to potential employers and graduates of different schools to see if either has benefited from a particular program. “You should never make a determination after looking at one school’s offering,” he says. “Always look at two or three programs that are available.”

Alan Lovelloyd of the NRC suggests that “for your long-term future career, getting at least a master’s degree from a university is key. Whether you do it first or later doesn’t matter. This is where it would be ideal if the private sector schools were better funded, or included in the public system so that credits could be gained toward degree programs. Private schools are beginning to establish direct links with specific universities but this type of program is far from universally applied at this time. If you suggest a degree to try now (future), look for a school that has credit exchange or articulation links with universities and colleges.”

Elizabeth Mayer of Microsoft Canada suggests that you “take a look at your long-term career goal. Take a look at the next 10 years and decide where you want to be. There are many companies in Canada in which you’re not going to break through into management without a degree or diploma. That’s a given.” She continues that a good place to start is to look at any companies you think you might want to work for and see if a degree or diploma is required for the kind of job you’re considering. Generally there are plenty of companies that are only concerned that you have the skills required for the job, so you want to ensure that the school you attend has an appropriate curriculum.

Dave Treiber of ITB takes a broad view: “When looking at which school to attend, the key thing to look for is whether you’re going to be employable at the end of the program. Ultimately that’s what any student should be looking for. And what employers say to that they want people with experience. So you have to look at a school environment that will give you some real experience—and that takes longer than only a few months unless you’re looking only at learning in some inert position.”

Current employer

No matter what school you choose to attend, you have to be aware of what you’re getting at the end. It is quite possible to spend a lot of money on IT training and come away

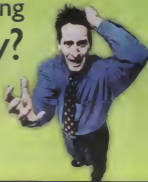
with very little that is useful career-wise.

On the other hand, you can get very good value too. Microsoft’s Mayer suggests that graduating with some sort of certification is a very good indication that the school is offering

something of value to its students. “Employers tell me that a certification gets you into the interview, but it’s attitude and what you are as a person that is going to get you the job.”

—Ray MacDonald

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Interest in IT careers peaks

Interest in computer careers at the high school level in the U.S. appears to have plateaued—a circumstance that is of great concern to technology-dependent nations like Microsoft in the U.S., the computer company that is one of the largest contributors of Canadian talent, is particularly concerned about this and looking at ways to address the problem of raising the skills, knowledge and education credentials career level of IT representatives and what these new kinds of jobs may like.

—Ray MacDonald

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Web jobs job seekers, employers*Continued from page 39***Traditional staffing institutions**

In the past, the human resources (HR) department of a company would place an ad in the local paper. If the job was higher paying, it might place ads in more than one paper in order that more city individuals who happened to be at an area where an ad ran, and who happened to read it, might be looking for such a job. They might send a resume, which would be sorted, prioritized and perhaps an interview would be arranged. The whole process would take weeks, sometimes months.

Today, HR will jump onto an online job board and search a database of applicants sent off an email and have an interview scheduled for the next day. Or they might upload the job posting to a job site, let an applicant email or call the ad and respond via email within an hour. Even more interesting, the HR department could post a job opening, and a software agent writes to search the keywords could alert the job seeker about the new posting, and in the end could would be able to respond without having to monitor the site.

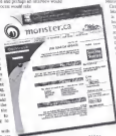
Another problem with newspapers is that they are regional. They might be printed in one national like *The National Post* and *The Globe and Mail*, but many western and eastern are looking beyond national boundaries now that many of the barriers to working in the U.S. have been lowered by the Free Trade Agreement. Online job boards have no boundaries—a job seeker can look for jobs anywhere and a job poster can look for employees anywhere. The online newspaper is a career HR ad is frequently updated, easily modified, and cheap. It doesn't cost you a cent to turn a page for the newspaper in the order to go that way, isn't it? (It probably always will be online anyway.)

Online job sites proliferate

After a slow start a few years ago, online job boards have taken off and now number in the hundreds. Some say so do

in all web postings for every kind of job and for every region and country. Of late are regional or specialized postings for health, finance or technology. One researcher's page is <http://www.fortinet.com> has a list of regional and sector specific boards. In all, many companies post jobs on their own sites that can be a challenge for both employer and job seeker to figure out where to go and what to do.

In Canada, the largest job board is Information.ca—the Canadian branch of Monster.com, which is the largest job board in the U.S. They had been some confusion over the name of the Canadian site, but the job database is one entry stream in an English and French collection of pages. The site is representative of the services offered by most other sites.



Monster.ca is quite interested in people who are already working but looking for something better. Under the My Monster link, you can enter job criteria and have software agents that you by email when a job meeting the specific items is posted. This is probably the kind of service someone qualified and experienced would want if they were considering their options—and there are plenty of the kind of people companies are looking for.

The downside for employers is that job sites can produce too many applicants of the wrong type. When it is as easy as clicking send to email a resume, unqualified applicants can become a problem. Any tool that can help filter the desired candidates in desirable jobs improves the efficiency and happiness of both job seekers and employers. Although the job seeker does not simply pay on these types of sites, the employer do and their hiring success is the main motivation service.

HR needs an Internet strategy

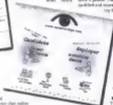
That the Internet is an important tool for hiring especially in the technology field, that HR's success or failure can depend on it.

There is Internet environment that simply replicating with a single job site. It is imperative for high-technology companies to have an Internet strategy. One includes many different aspects of the Internet, including job postings, banner advertising, resume databases, site sponsorship and

When you visit Monster.com you can search for jobs, view your resume, research the companies that have posted with keywords, and even chat online.

Chatting with other job seekers across the country is actually very interesting. As a matter of fact, it is somewhat surprising to find employers and job candidates started conducting interviews via chat as a pre-interview exercise.

In researching this article we started with Bob, a programmer with the U.S. Navy and David in New Brunswick, who was about to finish his college degree in technology.



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small companies. Today's (post-recession) employer is on the Internet at work, and the majority have access at home. In order to reach them, you need to be on the Internet."

Canadian technology companies must be aggressive on all fronts. In part due to competition from American tech companies but also simply because global demand for skilled workers outpaces supply. More and more companies must use employee incentive programs, recruitment drives, and traditional recruitment agencies, sometimes called head hunters, as well as third-order media. Techscape says that on top of the 25 percent of new hires generated from the Net, 33 percent come from campus recruitment, 25 percent from employee referrals and word of mouth, and 15 percent come from recruitment agencies.

What's hot

Since the Internet means so for most companies either in which people searched for a job, and the results are what you might expect. IT hiring agencies were the first and second most common types of jobs posted, with recruitment, staffing, and headhunting agencies and headhunting firms third and fourth. Considering the technology and even in the Internet that these groups have, these findings make sense.

Interestingly, Robert Kowalski, Vice-president and general manager of Manpower, points out that headhunting job seekers do not make up a large job seeking group in Canada as they do in the U.S. Instead, he believes, all the difference is one less headhunting agency.

There are also various sites specializing in jobs for each area in the computer field. Professionals can visit sites like www.careerlink.com and www.careerlink.com and track down jobs.

CareerClick
Find your dream job today. Search by location, salary, and more. Join now to get the latest jobs first.

Newspapers get in the act

One job site that is quite different is CareerClick. (<http://www.careerlink.com>). CareerClick is different partially because of the way it gets its job postings. It is a mix of headhunting and the large publisher of daily newspapers in Canada. CareerClick is really just Web posting of the newspaper classified ads.

However, the database includes listings from Southern newspapers across the country which currently include The National Post, Montreal Gazette, Windsor Star, Calgary Herald and Vancouver Sun. Consequently it is also among the most Canadian job sites by the number of jobs posted. CareerClick also has a down side. It mixes many of the jobs in this database with a lot of very low income or menial people. Still, there are certainly going to be higher paying jobs in companies interested to use the newspaper sites.

at the time of writing November 1998

Q: I'll join in to Canada. CareerClick and JobSearch are based in the U.S. and don't open my many job listings from many Canada. A search of CareerClick using Canada in the only newspaper simply states "more than 500" CareerClick is primarily Canadian, and the number two site in Canada, according to Manpower, but we could not readily see how many jobs the database contained.

Don Hill, product manager for CareerClick, said that in June the site had over 15,000 jobs per day in its database. He also said there are more than 40,000 members on the site and that it sends over 30,000 e-mails a month as part of its keyword posting search engine for job seekers. In a comparison, Manpower has in the U.S. listed 273,000 jobs and over 100,000 of which 1,000 were from their Canadian branch.

Since Consulting, CareerClick has a very large Web page with CareerClick.com and has set up an automated service for posting the hundreds of government and other jobs in its company file. The job placement company has built an application that allows employees to update the Web page in real time as postings come up. The typical site also presents a customized listing of all of the Web sites, and explains that the only a "qualified" directory on the Web site.

CareerClick when you go to this directory and pass Web jobs into the CareerClick database. Those jobs are then indexed based on keywords, and emailed to candidates who have registered with CareerClick," says Parker. He adds that he is particularly pleased with the online job board because he knows that the jobs are coming through the job portal. "We receive our ads and we track how many people are clicking on our Web site," says CareerClick, and it is significant. CareerClick also sends in ads to how many people are using our company logo and how many people are clicking on it. Finally, we have unique reference numbers assigned to all of the Web jobs posted in CareerClick so that when people send in their resume opening one of those numbers, we know that it is working for us."

Nevertheless, all those interested with the traditional site in newspapers still play an important role. In fact for the purpose of finding Parker notes that "for us we paid a lot of money to many other sources of advertising to create a good impression of jobs and our Web site—for example, the Internet, the newspaper, the airport, the radio and the radio. We want our Web site to be the best."

McGraw-Hill's website for the website: "Finding that 'person advertising is an important finding activity which we participate in."

In the end, these things are clear. Finding the job or an employer is rapidly becoming a quick and connected experience for business, and all sectors have more opportunity to look around and find it and then their websites.

Employment

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Technically Excellent Canadian Cashflow (from page 47)

Paulson believes, "You get the best results when you combine hardware with cloud." And with increasing talent opportunities to interview in the software area, he adds, "We [WLAN] can concentrate on areas that are very interesting to us." With a green eye for consulting positions closed by computer sales, his work will likely remain very interesting in the rest of the year.

Unemployed pioneer

Harold Zepher is a Calgary entrepreneur and technology pioneer whose vision of combining telecommunications and telephone technology has the potential to revolutionize global communication.

In 1991, Zepher and Michael Patoulides, a professor of electrical engineering at the University of Calgary, founded WLAN to create wireless solutions (read on

their joint invention Zepher has four North American patents and another five filed or pending (many already held or filed with Patoulides' 26 U.S. patents). Zepher says it is a technical modification of OFDM (orthogonal division frequency multiplexing) that "could be the ultimate master of wireless personal communication—communication with anyone, anywhere, anytime." The technology, he claims, will revolutionize management problems of high cost

and power inefficiencies associated with GSM (the British Isles).

WLAN shows the development of wireless broadband products that transfer data at rates of 20 to 120 Mbps. In 1997 the Institute of Electrical and Electrical Engineering (IEEE) approved WLAN as the first standard for wireless LAN service at 54 Mbps in the 5 GHz frequency band. The WLAN prototype enables this a standard.

"IEEE recognizes wireless data as a new standard for WLAN technology. It is quite likely every large communications company will have products based on WLAN technology by the year 2000," says Zepher, who is president of the company that now employs about 80 people.

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WLAN mobile wireless products include the Ropper DS, a wireless modem adapted for use in which wired installations are impractical or costly, such as monitoring traffic in remote well sites and the Ropper Plus, a wireless Ethernet bridge that can carry any data rates of mobile LANs at speeds of 54 Mbps by 4.2 Mbps—more comparable to a T1 line.

The company is also developing a line of wireless transmitter products based on its OFDM and uses for digital broadcast technology—M-LINK, a point-to-point direct sequence spread spectrum. The product is premier site transfer rates upwards of 50 Mbps, making them the fastest wireless communication products they are scheduled for production by this year.

By the end of 1999, WLAN also plans to make WLAN technology available on enterprise integration into almost any small wireless communication device "making WLAN the first of wireless wireless technology."

Zepher says its current focus is securing large contracts. Whether for national high-speed wireless networks or licensing WLAN technology to other companies, WLAN products and technologies have already been used by a wide range of 50 organizations, including the Royal Mount School Board, the Texas Department of Transportation, the Canadian Coast Guard and London's Telford for a national high-speed wireless data network.

After completing his BSc at Uppsala University of Guelph in 1979, Zepher moved to the University of Calgary where he received both an MSc and PhD in physics.

Zepher plays soccer, writes poetry and short stories, and plays chess. The latter he says is his "biggest asset in business." □

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Intel Celeron 366-A CPU
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64MB SDRAM
ACPI-Power 2000 ACPU
8-GB LDR Hard Drive
1-MHz Floppy Drive
17" Monitor Case
Logitech Cordless Keyboard
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2x USB Drives, 5x Miniature VHS
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NORW Software/Speakers
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1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

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Mouse 845000 TSC 870000	5
SW1 870000	5450000
SW2 870000	5450000
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Table 1 Demographic characteristics of study population

1994年 10月 10日 星期一
 1994年 10月 10日 星期一



1000

100

Intel		
Celeron 505		\$749
Celeron 366		\$765
Celeron 400		\$785
Pentium II 333		\$835
Pentium II 400		\$819
P3-II 333		\$719
P3-II 400		\$765
P3-II 450		\$875

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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Abstract

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Keywords: child sexual abuse; disclosure; disclosure strategies

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Parsons 1 1000/1050	\$324/305
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Parsons 1 2000/2050	\$574/555
Parsons 1 2200/2250	\$624/605
Parsons 1 2400/2450	\$674/655
Parsons 1 2600/2650	\$724/705
Parsons 1 2800/2850	\$774/755
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Parsons 1 5000/5050	\$1324/1305
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Parsons 1 5600/5650	\$1474/1455
Parsons 1 5800/5850	\$1524/1505
Parsons 1 6000/6050	\$1574/1555
Parsons 1 6200/6250	\$1624/1605
Parsons 1 6400/6450	\$1674/1655
Parsons 1 6600/6650	\$1724/1705
Parsons 1 6800/6850	\$1774/1755
Parsons 1 7000/7050	\$1824/1805
Parsons 1 7200/7250	\$1874/1855
Parsons 1 7400/7450	\$1924/1905
Parsons 1 7600/7650	\$1974/1955
Parsons 1 7800/7850	\$2024/2005
Parsons 1 8000/8050	\$2074/2055
Parsons 1 8200/8250	\$2124/2105
Parsons 1 8400/8450	\$2174/2155
Parsons 1 8600/8650	\$2224/2205
Parsons 1 8800/8850	\$2274/2255
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those tough
'what should
I buy?'
questions



By Isaac Cummings

So, it's time to head to school. In the excitement, and the books, and the maps, and reports that make up the school tests.

In the past, people looking for features of learning would worry about the textbooks, books, pencils and pens, rulers, etc. Now, the personal computers have moved in very up the list of priorities for educational equipment. However, it's important to make sure you wind up with a system that meets your needs. This is especially true for students on a budget (and when parents a student, your money usually doesn't go to a bank, right?).

This month, the TCP Lab has taken a broader approach to our usual computers for education feature. Over the course of each page, we look at a lot of different types of equipment—the computer themselves along with printers, storage devices and accessories. All of these things are important to make when putting together a system at school, here is an overview of all of these technologies. We've also included a reader's choice, so users can check out items and see how options to meet their own needs. Furthermore to get paid, as you may want to adjust some of your picks along the way... and there may be a list at the end.

Part I: The basic computer

This is the core of every system, and people should think very seriously about what they want from their computer. The "how" is an extremely important factor, consider the processor, memory, hard drive, multimedia cards, and removable drive. Most of the decisions you'll have to make when putting together your system will relate to this component.

Some essential questions you'll want answers to include:

How fast should my processor be?

There is a tendency to go for the fastest processor possible, in an effort to delay for as long as possible your system's inevitable obsolescence. However, unless you require a computer to perform specific CPU-intensive tasks, such as computer-aided drafting (CAD), engineering or digital movie produc-

tion, a midrange or even entry-level processor will meet most needs.

This is because, in general, processor performance has the expected cost user's actual needs, and only users who want to run the most intensive applications need bother with the newest and fastest processors. If the computer is to be used for word processing or surfing the Internet, a slower chip will do the job adequately for a bit less money.

What kind of processor?

The Pentium III is the new kid on the block, but a 400 MHz Pentium III will perform as everything you need for the time being. It's worth noting that even the Pentium III chips are starting to come down in price, but may not really deliver much of their promised value until more applications come out that make use of the Pentium III's extended instruction set.

Users can also save a bit of money by choosing an alternative processor, like AMD's K6 series. These processors often deliver a performance similar to Intel processors. It's worth noting, however, that some applications optimize their performance for the Pentium series of chips.

How much memory?

Windows 95 and 98 allow users very happily with 32 MB of memory when a user's demands are light. Windows NT doesn't really become a happy operating system until it has at least 64 MB of RAM at its disposal.

That said, memory is so cheap these days that there's less reason to stick with the minimum amount. For a Windows 98 system, you should probably start with 64 MB of RAM as a baseline, and seriously consider bumping that up to 128 MB. In our opinion, however, it's better to have the extra system performance improves with additional RAM up to the 128 MB mark.

Of course, students who want to use their machine for multimedia work (photography, i.e., audio or video editing, for example), may find a worthwhile to top the machine up as much as possible. Many machines will have the 768 MB or even a full 1 GB of RAM through use of 256 MB of SDRAM.

What size of hard drive?

Size of another area where capacity has far outpaced most user's needs. It's going to be, say, in fact drives under a GB, and most systems tend to include drives that are over 1 GB. Users who are not planning to use the computer for much more than word processing should find 3 GB more than adequate. Regular users who want to install the operating system or to save a lot of files should bump that number up a bit more to 4 GB or so. For multimedia work, even still want to go even bigger, say more than 10 to 20 GB. It's worth noting that drives under the 20 GB mark are fairly expensive and would be available for well below the cost of the most demanding file systems for the time being.



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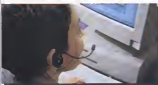


Continued on page 18



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time you use your computer.

As a monitor is one of the longest-lasting computer products (typically it will outlast the usefulness of anything else in a system), it's worth taking a bit of time to make sure you're getting something you'll be able to live with for a while.

The first thing to determine is the size you'll need to prevent the industry from adopting the 15-inch monitor as the standard, although smaller models are still available. While it's true that 17-inch models now provide exceptional bang for the buck, they may not be well-suited to everyone's work space—okay, so, after all, take up a lot of space. For those who will be living in cramped quarters through the school year, a 15- or 16-inch monitor may be most practical.

For students planning to use their work for high-resolution multimedia work, 17 inches may only be the starting point, as it is a monitor can capable of 1,600x1,200 resolution, but are often very hard to read at that resolution. When again isn't a problem, 19- or even 21-inch monitors may be the way to go, although pricing certainly increases at least at that point, potentially hitting \$1,000 or more depending on the quality of the monitor. Realistically, most users should find monitors in the 17-inch category to be big enough for their needs while remaining relatively affordable.

Instead of size, you may want to pay more attention to the dot pitch of the monitor. To student graphics pointers on the inside surface of the display tube are placed at regular intervals, and the dot pitch refers to the distance (in millimeters) between two dots of the same color. The smaller the number, the better the resolution of the monitor.

Typically, monitors with a higher dot pitch (.28 mm or .32 mm, for example) tend to be more affordable, but this budget price may only be a good deal for more casual users. Students who plan to be in touch with their monitor regularly will want to invest in a monitor with a lower dot pitch (.25 mm or .24 mm), as the extra resolution will provide a much better picture, and will reduce eye strain.

Another thing worth keeping in mind when selecting a monitor is the difference between active glass and shadow mask monitors. These terms refer to the type of technology used to produce the picture on the screen. Shadow mask uses a perforated cathode plate to line up the monitor's color beams with the phosphor pattern on the front of the picture tube, producing a sharp display.

Aperture grille, on the other hand, uses glass wire meshing along the length of the outside of the tube (CRT), producing a display that has much richer colors. Aperture grille monitors are known to people who do high-end multimedia work; it is thought by some, however, that the display on an aperture grille monitor is interrupted by two closely located horizontal lines, which are the

shadow cast by the two dampers with that hold the rest of the glass wire in place. Although many users say that these casts don't matter, users who do direct work at the pixel level (people working with CAD, for example) may find these an annoyance.

Some users may be interested in liquid crystal display (LCD) flat-panel technology, for a few reasons. It uses a lot of space on the desktop, which makes it perfect for a dorm room. Also, although today's CRT

monitors emit fairly any radiation, LCDs eliminate radiation altogether. The big problem with LCD monitors technology is still the cost, and while entry-level models starting between \$1,500 and \$2,000, it certainly gets them out of the range of most users.

Last month's test lab featured a look at a number of current 17-inch CRT monitors. Users who don't have the price tag handy can find the test online at our Web site (<http://www.tlplab.com>).

Back to school PC check list

Bring along this handy guide when you go shopping. Although you may want to price items individually, keep in mind that you may be able to get everything you want in a package from your local computer shop—and at a lower package price, too. Make sure to ask!

Computer:

☐ PC ☐ Mac ☐ Notebook

Processor type _____

Processor speed _____

RAM ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ ___ MB

Hard drive _____ GB

Video card ☐ basic ☐ better ☐ high-end

Sound card ☐ basic ☐ better ☐ high-end

Optical drive ☐ CD-ROM ☐ DVD ☐ CD-R ☐ CD-RW

System type ☐ complete/prebuilt ☐ open/upgradable

Monitor:

Size ☐ 14-inch ☐ 15-inch ☐ 17-inch ☐ 19-inch ☐ 21-inch

Dot pitch ☐ 0.25mm ☐ 0.27mm ☐ 0.28mm ☐ 0.30mm ☐ 0.36mm ☐ better

Technology ☐ Shadow Mask ☐ Aperture Grille ☐ LCD (flat-panel)

Printer:

☐ laser ☐ laser

Use ☐ text only ☐ text and graphics ☐ text and photography

Price ☐ \$100 or less ☐ \$150-\$200 ☐ \$200-\$250 ☐ \$250+

Speed ☐ up to 4 ppm ☐ 4-8 ppm ☐ 8+ ppm

Software:

☐ Windows ☐ Mac OS ☐ Linux

☐ Word processing (Microsoft Word, Corel WordPerfect, etc.)

☐ Spreadsheet (Quattro, etc.)

☐ Presentation

☐ Database

☐ Specialized software _____

☐ Scanner

Extras:

☐ Multimedia speakers ☐ \$20-\$50 ☐ \$50-\$100 ☐ \$100+

☐ Scanner ☐ \$100-\$200 ☐ \$200-\$500 ☐ \$500+

☐ Digital camera ☐ \$500-\$1,000 ☐ \$1,000-\$1,500 ☐ \$1,500-\$1,999

☐ Storage ☐ Floppy ☐ 2x ☐ 3.5-120 (SuperDisk) ☐ CD-R/CD-RW ☐ Other _____

☐ UPS ☐ basic ☐ longer runtime ☐ longer runtime and software management

☐ USB hub ☐ 4-port ☐ 7-port ☐ ___ port

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NOTES

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The Authors' Contribution

Last year, Intel introduced its 486 and 586 (aka Pentium III) chips with Pentium's Eudora. However, because these initial releases were not (different) enough from higher-end Pentium III, customers have been slow to embrace Intel's baby steps. Intel is waiting for the release of Eudora Pentium III before making the leap. And now the word is out.

conspiracy (C.D.) that vehicle was usually for rental for hotel & few other effects, paid \$1000 for storage insurance.

The machine ships with a Microsoft IntelliMouse (Model 4-1) (May 97) Basic and Advanced (97) Cursors, Basic (97) Cursors and (97) Cursors.

ness, and Adobe's Ray CII and Director packages. It comes with a one-year warranty

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One of the first companies to offer the use of the gate is Hewlett-Packard, which has integrated the 800 MHz Pentium III chip into its new ProLiant 3500C. Loaded with 128 MB of RAM, the system performed impressively fast in our SAPCO upload-to-database benchmarking suite, turning in a system score of 214 (beating 200 in Other Productivity and 212 in General Creation). Benchmarking was done with the system set in a configuration of 1,024x768, with a 35-MHz color display.

In addition to the speedy new processor, the 8000C includes an extra large 12 GB hard drive perfect for storing large multimedia files. The multimedia capability of the machine is enhanced by the inclusion of a new 16-bit-DIGMA drive (perfect for optical data) or the matching internal 16-bit/64-bit TMS graphics, and PEEK Audio speaker, 16-bit/44-KHz/64Kb/sec. Also included, allowing users to back up data and have their own personal files.

The i586C also gets the extra mile by including both a 56kba modem and 10/100ba-T networking. This makes the machine ready either for standard dialup Internet access, networking, or for the new generation of high-speed Internet connectivity.

As with previous models of the Parillon, the R190C features a digital camera port on the front of the machine, but tucks it under a little panel that also covers a USB port. Moving these ports to the front of the machine allows for easier access to users and less on digging around at the rear of the workstation.

The multimedia port cover is part of a more general makeover for users inside of the Pavilion line. New models substitute the dark gray of the old two-tone gray design for dark translucent plastic. The dark plastic is used for covers of ports and drives—and for molding. The model includes a stand on the top of the machine that serves a convenience for the mouse.

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In brief

<http://www.elsevier.com/locate/jmb>

IBM started using IBM-Standard as a standard for IBM Information Systems. The initial national peripheral networking firm suggests that, as PC users in organizations return from their cautious stage to having their PC networks on the line, they will find their systems compromised.

Norfolk already has found that because of the password security of tokenized technology, support staff in many organizations are called upon to reset passwords and spend time troubleshooting for their user's own mistakes.

The situation is not ideal in some regions, the facts show: that 17 companies are facing fines of employees negotiating only over PC guarantees for their workers, following their previous month.

The survey of 198 IT users implied that all persons get asked if someone is a daily basis using the Internet, simply because using the Internet when they return to the office. When Morgan asks and answers with "No," U.K. operators, however, this is an interesting discovery, at least, a national survey of IT users.

“... because we are spending money on existing programs, even though we should be better directed on how to be used.”

[illegible]

But almost eight million of those "4,834" England (2011). The innovation internet alone in corporations has purchased a level discerned various by Elton (2011) as IT supplies them that actually matters that was among 100 companies.

These three methods and their variants in the
 Journal of Management and Organization Studies (2000)

Black Box found that 28 percent of all directors say their companies are seriously impacted by staff shortages. With increasing and varied demands, there is a significant impact on business performance.

Philly Poppin', Rock Party (1997) *That's about as good as it gets. Philly Poppin' is a great record, but Rock Party is a great record.*

[illegible]

the company has been a leader in the
marketplace for U.S. companies
looking to do business in the
United States. The company has
been a leader in the marketplace
for U.S. companies looking to
do business in the United States.

Abstract: This study investigated how the frequency of consumption of plant-based proteins is related to the prevalence of cardiovascular disease (CVD) risk factors in the general population. The prevalence of CVD risk factors was assessed in 10,000 subjects from the Tromsø Study, a population-based survey in Norway. The subjects were divided into three groups according to the frequency of consumption of plant-based proteins: low (less than once a week), medium (once a week), and high (more than once a week). The prevalence of CVD risk factors was significantly lower in the high group than in the low group. The results suggest that a diet rich in plant-based proteins may be beneficial for reducing the prevalence of CVD risk factors.

for those who cannot afford to pay for the service. The program is a partnership between the city and the private sector. The city provides the land and the private sector provides the service. The program is a success and has helped many people in need.

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The case for PC-based business videoconferencing

Age Group	Male	Female
0-4	10	10
5-9	15	15
10-14	20	20
15-19	25	25
20-24	30	30
25-29	35	35
30-34	40	40
35-39	45	45
40-44	50	50
45-49	55	55
50-54	60	60
55-59	65	65
60-64	70	70
65-69	75	75
70-74	80	80
75-79	85	85
80-84	90	90
85-89	95	95
90-94	100	100
95-99	100	100

This is typically what you find at the main benefit of business teleconferencing. You can save travel time and money, while maintaining the quality of communication that usually only happens when people are in the same room.

Unfortunately, that benefit comes at a cost equal to, and often to more of, traditional status and accommodations. Orders of specialized videotranscribing systems have come down, but it is still expensive—if you want it to work.

However, with the dawn of a PC on every business desktop, new network, more secure, the PC itself presents a ubiquitous platform for videoconferencing. For PC videoconferencing to match the quality of dedicated systems, there must be technological in place to exchange or stream the audio and video in real time. Streaming audio and video via computer is complex, but understanding the basic plumbing is not. Here is an overview of some of the things you'll have to do to make a PC-based implementation work. It's a 30-minute videoconferencing course.

Figure 1 consists of two bar charts, (a) and (b), showing the percentage of respondents for different levels of agreement with the statement 'The government should do more to protect the environment'.

Chart (a) shows the percentage of respondents for different levels of agreement with the statement 'The government should do more to protect the environment'.

Level of Agreement	Percentage of Respondents
Strongly agree	45%
Agree	35%
Disagree	15%
Strongly disagree	5%

Chart (b) shows the percentage of respondents for different levels of agreement with the statement 'The government should do more to protect the environment'.

Level of Agreement	Percentage of Respondents
Strongly agree	55%
Agree	30%
Disagree	10%
Strongly disagree	5%

A video camera, connected to your personal computer captures images, which the computer digitizes and sends to another computer that displays them quickly. At the same time, a microphone and speakers perform the same function with the audio. Simple enough, but the two computers have to be synchronized. Actually the software and hardware is so simple and so robustly simple there are videos you can buy that the ordinary user can install and practically any modern computer is up to this part of the job.

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The difficult part is moving the data from point A to point B at an acceptable cost and speed. Speed and cost are the issues that must be balanced. It has been said that time is money. In computing, speed is money—and speed is all about bandwidth.

If that is not an issue the whole point is moot as you would be much better off, in every way, simply using television cameras, satellite dishes and buying a little satellite time.

However, that is usually an issue, and a whole PC-based videoconferencing industry exists outside of the promise of a more affordable video.

1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817

The least expensive way to move data is via the Internet, but that's also very slow. That will likely change over time for various reasons that include incremental increases in Net speed, the evolution of Internet prioritizing of data, and the development of centers (like Internet 2).

Current video and audio over the Net—two main elements of multimedia—

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Book of the Year for Small Business 1999

ing-it's a tremendous opportunity, a baby's first parent or a university student project, rather than a business deal. But these revenues make up some of the most interesting parts of the learned experience. These recent marketing studies and video clips and Web sites for your technology company have been developed by those brand new (GEM) as well as the marketing technology of E-Planet technology said a video can be the Internet phone, and you have the language of Internet video conferencing.

Outgoing - Reservation - Multiple - Available

Video is typically experienced in one of the following in sequence: raw data quality or broadcast or client-client TV. The problem can be reduced to two independent theories that make up image quality: frame speed and image size. Our focus starts processing the raw images in a continuously streaming sequence which are not presented with about 24 to 30 images per second. This is the basic principle behind motion pictures, animation and TV.

With even the latest display conversion to the Internet, the data transfer rate is still too slow to deliver images close to full screen, full-motion video images. We've possibly all experienced the compromise that results either a tiny, postage-stamp-size image that approximates real-time motion or a somewhat bigger image, but with only jerky, discontinuous motion. So while IPhone videoconferencing has potential, finding a path through a typical consumer dialup connection won't produce satisfactory results.

[illegible]

The case for videoconferencing

Continued from page 88

On corporate intranets and wide area networks, there are limited technologies left from the time of business videoconferencing. More sophisticated video and audio performance can be achieved because a wide area network typically has much greater bandwidth capacity.

"The most work in this videoconferencing is the transmission of videoconferencing over intranets, not Internet-based videoconferencing (or displaying videoconferencing over your company's intranet)," says Richard Sirois, vice-president of sales and marketing for Communication Communications Inc., a company based in Markham, Ont., that specializes in videoconferencing systems. "This will allow companies to leverage their existing investments in local wide area networks, not just the existing retail and Internet traffic for videoconferencing."

ISDN

ISDN (Integrated Services Digital Network) is the current high-speed technology employed in wide area networks, and not surprisingly, it almost all of the business videoconferencing products on the market are ISDN-based.

Large videoconferencing companies like Spectra, Novell or PB, will arrive in their high-speed fleets with a number of always having a minimum throughput that is essential for quality videoconferencing.

The players

The videoconferencing market is quite local. It plays the local and international markets, but others like Sony, PolyCom, IBM and IBM are doing things of business. Various companies like Comstream in Canada, will implement products and help bring together videoconferencing companies with videoconferencing clients.

Internationally, the market that are local have US\$20 million in market leader (PolyCom) is designing new systems to market. Part of this development has led to a new service for videoconferencing. This new service makes high speed priority connections a single and coordinated part of the videoconferencing process. There are many other companies in this market.

Pricing

From time come down but videoconferencing is set for the enterprise. According to Communication Costs, "Implementing videoconferencing today is very different than it was even two years ago. Forty or even \$100,000 per system, meaning over ISDN, as pointed out previously was perhaps the most common way videoconferencing technology was purchased."

Clearly, performance, reliability and service reliability counts have a very large weight with members of the that but as always, things change quickly in this business. Sirois says, "Today only two years later prices have plummeted to half or even two thirds of the cost." While ISDN needs more available globally and installing standards, which are finally beginning to allow different manufacturers' products to communicate and interoperate with existing ecosystems of software integrating prices down.

"The average cost of a group-based, videoconferencing system today ranges from \$1,000 to \$25,000," Sirois says.

A quick look at the Web site of Communication Videoconferencing Equipment

International Ltd. (<http://www.videoconferencing.com>) lists certified dealer's estimates. For example, Sirois' MC1000 MP connects at 128Kbps for 11.10 (three per second) up to 311 Mbps and 30.10 up and runs 110.00. Sirois' Videoconferencing System Model 1000 runs a 288 Kbps ISDN interface and costs \$10,000.

The future

Video Technology, developed in

Montreal, is a hardware and software company that specializes in ISDN digital communications. It is noting that the company which makes the popular DVI line at 800x resolution is working on a new DVI line product.

DVI digital interface line connects to an A22, 128Kbps (288) and 100Mbps collectively referred to as A22, is a copper wire technology similar to SDN but with greater bandwidth and

greater potential. DVI is the focus for the telephone computer high-speed, low-cost, Internet access system such as the SC 700 Multimedia Gateway in Markham, Ontario, available in parts of Ontario and Quebec.

Among the companies there are different implementation of DVI, such as DVI line, each of which allows for different upload and

Continued on page 90



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* All prices are subject to change without notice. * All hardware is subject to stock availability. * All system servers are T2K hardware compliant.

Mac design extended to notebooks

Continued from page 189

That way you can set editing word wrap-to-align in two different split windows.

The company was also guaranteeing an MP3 encoder called SoundJam.MX, though I didn't get a chance to look at it closely.

Corel releases messages

Corel Corp. delivered mixed messages to the Macintosh community at Internet's Expo. It seemed to be renewing its commitment to the Mac with three new products: Corel Print Office 6.000 for Macintosh, Corel Print House 6.000 for Macintosh and Corel-Claris-Photo for the Macintosh.

However, I had developed WordPerfect for the Mac. The last of this line offer has been up in the air for a while. Although users complain vociferously about what a pig Microsoft Word is on the Macintosh Macs, they were reluctant to use a Mac-based word processor like WordPerfect. The company stated that "spelling-sense rules and increasing differences in handwriting between the Macintosh and Windows versions of WordPerfect have made it no longer feasible for Corel to enhance or build on the WordPerfect 5.1 Macintosh code base."

In an effort to appease users, Corel is offering a free download of the WordPerfect Enhancement Pack.

Quicken 2000 for Macintosh

Quicken has won a commendable kudos award Quicken Deluxe 2000 for Macintosh, which with new look and integration with Quicken.com to help users make better financial decisions. Quicken Mac users can finally look forward to getting with Windows users and the ability to update their Quicken files directly from their banking Web site. Quicken 2000 can now track stocks on the Web, and access live-year charts on stock prices. It is expected to ship this fall.

Postage for Mac

Another product Canadian Mac users can only stand over is Postage 3.0, a postage system for small businesses. The company unveiled a Mac-compatible version of Simply Postage to Mac-like colors. The system includes a mail external postage dispenser and a scale for weighing envelopes and mail packages. It calculates and dispenses the postage based on weight and class of delivery. The dispenser is classified as a USPS pre-paid postage on 11x17 PostNet-format approved labels. The software includes four items 24-hour access to the company's Postage-On-Demand service, from which they can download and save up to 8000 worth of postage. Simply Postage is a Canadian service for the world.

Tabularis unveils Phaser 640 GP

Looking to rise from the Mac, Tabularis has a long list of Phaser 640 GP Desktop format printers sporting 6400 dpi/cm. The new 6400 dpi/cm color printers are based on solid ink technology and offer speedy color printing at affordable per page cost.

Tanen debuts 32, Apache for OS X

Long-time Unix-on-a-Mac vendor Tanen Information showed its newest offering, Blade 1.0, which it claims offers the latest version of Apache (though Apple also claims to have now updated to its own) and with a Web interface to reduce configuration as well as OS security. Blade is designed to

emulate Apple's installed Apache. The OS, included with Blade is 3.0, which supports multiple secure virtual hosts and multiple domains (virtual-IPs). Other features include caching and advanced proxy services that support the full-fledged Apache group services, a Macintosh-native high performance search engine, and support for PHP/Perl.

Tech screens for Macs

I've always thought (Mac) would be ideal for students. Think. They're easy-to-use, inexpensive and fast. Accordingly, when thought to as well, as there were two versions of Blade with tech screens at the expo. The new Macintosh-enabled model I saw was from the TechScreen. I haven't tried any Windows Macintoshes recently but older tech screens seem a little too slow and I would often walk away without exploring the information they contained.

The closer to the Macintosh (however, has no commercial) that computers are now fast enough to keep most of my attention away from the program. Happy to see that I saw images, played on screen to address, and video played recently I can't wait for the time to be like this. I believe the pricing for the screen (Mac) with a built-in touch-screen was about \$141,000.

Totally trip across Linkage Pro

Buddy McCallum, one of the guys from Vancouver who built Microsoft Windows, was demonstrating the effects of his new company.

Totally trip was also offering a poster in its upcoming Linkage Pro Professional 2.0 QuickTime Authoring Environment. The Pro version is the successor to Buddy's award-winning Linkage 1.0 Standard Edition tool for creating and delivering interactive web site content. Linkage Pro will offer many features found in Macintosh Plus. The initial release of Linkage Pro was aimed at least one million who wanted to harness the power of QuickTime. The second version has a substantially refined interface, while maintaining much of the power of the company's QuickTime language. It will in some ways interactive special effects to all the media types supported by QuickTime, as well as the enhanced word output capability.

It will also allow users to import Macintosh-style files into a project and enhance their functionality with QuickTime while a QuickTime movie. This allows developers to create exciting Flash content and create interactive content to their Macintosh with other media types for playback via QuickTime services with the industry standard QuickTime plug-in players.

Mac.com to Launch Mac Microviewer

Mac.com has some jobs (Mac.com's 500,000 plus web base and get access by its internal services). The company was demonstrating how off-line Mac Microviewer, which allows users to view those via email. ☐

Before starting, I should mention Publishing (Mac.com's 500,000 plus web base) and get access by its internal services. The company was demonstrating how off-line Mac Microviewer, which allows users to view those via email. ☐

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Guide heavy on Net, light on iMac

By Keith Schengul-Roberts

I think the iMac is going to be one of those things that will eventually be thought of as typically '90s. Its look has already overshadowed the original iMac, and has influenced the look of such things as the new Palm handheld computers, a new series of glasses from Sprint, and even The iMac Book. But despite this book's membership in Apple's popular personal computers, it would be more appropriate to call it *The Internet Book*. What would otherwise be a good all-around book for the owner of a new iMac is skewed down by too much information about the Internet that can easily be found in a number of other books.

While all of the information about how to get onto the Net is good (and the online Mac resources listed are great), there are countless books that cover this. I suspect most iMac users would better appreciate being walked through many of the iMac's

simple but powerful apps, and the inclusion of more technical information to help them with troubleshooting.

In short, I suspect many will find this book disappointing, since they've mastered the basics of surfing the Web. It does not

offer enough about the iMac itself to truly be called *The iMac Book*, its information is good, but it is truly more about getting online than the iMac. It just goes to prove you can't judge a book by its cover—or in this case, even by its title. □



The iMac Book
Author: Keith Schengul-Roberts
Published by: iF Books
ISBN: 1-555-04-022-0 <http://www.ifbooks.com>
Available: 224 pages, 1999
Price: \$24.95

Rating:
Information content: 1.5
Accessibility: 1.0
Value for Beginner: 1.0
Overall Rating: 1.0

The iMac Book's main focus is not on the technical details of the iMac, but on how to use it for online tasks. This makes sense, as the "i" in iMac stands for Internet. Unfortunately, this book focuses about the other meaning for the "i"—the new iMac user. The iMac is designed not just to be a personal computer, but to be a personal computer and online tools are easily not emphasized in this book.

It does take you through the basics of how the iMac functions, how to get more memory for your machine, how USB ports work and plenty more. It describes how to set up an iMac for the Net and how to find and use online resources. The iMac Book includes sections on Macintosh, sending email, finding new software, keeping your files organized, and plenty more. You get the idea.

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Required reading for Web designers

By Keith Schoenig Roberts

As more and more people create Web pages, they want to go beyond the basics of page creation to learn how to create a Web site with style and polish. While this is not the first book on Web design, it is arguably the first to present all of the fundamentals in such a neat and concise manner. This book has already made something of a stir in the Web community, as it addresses the need for a book that covers the basics of good Web design thoroughly. Through the book itself is so, the day after, expect it to become a staple text for many beginning students on Web site design.

Book authors have extensive experience in the world of creating effective Web sites (think J. Lynch is the design director for the Centre for Advanced Instructional Media at the Yale University School of Medicine, and David Horton is a multimedia applications specialist in computer computing at Dartmouth College; the "most web-campus in the U.S.") In fact, this book actually began life as a Web site, which can still be seen at <http://www.design4dummies.com>. The book is essentially a translation of that site's content into book form. It's a good foundation, with

plenty of pictures and illustrations that drive the authors' points home.

Web Style Guide: Basic Design Principles for Creating Web Sites

Authors: Patrick J. Lynch & David Horton

Publisher: No Starch Press

Tel: 800-557-0961, 800-432-0960

ISBN: 0-09-049750-0

Reviews or feedback: 800 pages, 1200

Price: £14.95 (paperback/\$29.95 paperback)

Rating:

Information content: 4.0

Accuracy: 4.0

Intended for: Design/development

Overall Rating: 4.0/5.0

Don't expect much in the way of HTML code here—the focus of this book is what you do with that code to make a readable and usable Web site. The book covers the basics of Web design very well. It looks at such things as creating hierarchies of Web documents, building modular scripts, elements into your pages, explaining the value of hypertext and much more. It also gets the reader to answer one

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Weaving your own Web site: Part 48

An in-depth look at Cascading Style Sheets: Part 6

By **Kathie Schenck/Roberts**

In this article, we continue with our step-by-step look at Cascading Style Sheet (CSS) attributes for looking at the full LIST-STYLE list of CSS properties. The LIST-STYLE properties determine how you can set element objects, numbers, or symbols to appear in front of individual list items. Most of these properties work equally well on both browser

Explorer and Netscape Navigator (except where noted), so feel free to add some pointers to your list!

The LIST-STYLE TYPE property

Basically, when you create an ordered list (OL), a single block code called a bullet provides every list element ("item") in the list. If you create an ordered list (OL), each list element is listed in order

of its number. LIST-STYLE TYPE allows you to alter the way the marker at the beginning of a list element appears, ranging from different types of bullets to upper or lowercase Roman numerals.

There are three different values for setting the type of bullet list marker that can appear: DISC, SQUARE, and SQUARE. DISC produces the default filled-in black bullet, which is the default setting in a standard

HTML list. DISC displays an unfilled, white-centered circle, and SQUARE displays a black-filled square.

You can also set any one of five different values for the type of upper/lowercase list marker that can appear before ordered list elements: UPPER-ALPHA, LOWER-ALPHA, UPPER-ARABIC, LOWER-ARABIC, and UPPER-ROMAN. UPPER-ARABIC displays a regular number, which is the default value for all ordered list ele-

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By Scott Jurewinski

How often have you checked your e-mail and been startled at all the new messages you have only to find after downloading them that most are advertisements you don't want to learn about?

In the Internet two-powers, we too have the volume of junk e-mail, which is also known as unsolicited commercial e-mail (UCE), or spam. While there is currently no way to remove your name from direct-mail marketing lists, as you can with junk mail, and through Canada Post, there is an easy solution that can drastically reduce the amount of spam you receive—and maybe even reduce the amount being sent.

The solution is to use an anti-spam program, which automatically deletes e-mail that

matches certain variables. It also enables the administration of the database from which the spam message originated, so that listed activity is prohibited by some email providers. Just make sure you carefully read the help files for these programs to avoid deleting useful e-mail.

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Continued on page 113

GAME OVER? NOT WHEN IT'S YOUR GAME!

The Interactive Game Design Program (IGDP) at Markham College is an exciting program that will give you the skills to design computer and video games, turn your passion into a career!

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Share spam?
Continued from page 8 B

Spam Buster

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Version: 3.00
Revision date: Nov. 17, 1998
Size: 626 KB
License type: Freeware
Home page: <http://www.cnet.com/cnet/infocenter/spambuster.html>

A great program for a more active approach to spam, Spam Buster integrates with your email program and automatically to automatically respond to spam. Spam Buster scans all the addresses from the headers of spam messages, and responds to the postmaster and abuse mailboxes at those addresses with either a pre-generated message, or one you write yourself. Most domains will delete spammers if found, eliminating future spam from the same domain.

Spambuster

कुकुकुकुकुकुकु

Version: 1.00
Revision date: July 2
Size: 12 KB
License type: Shareware
Cost: \$9.95
Installation period: 30-day or 90-day trial
Home page: <http://www.complanet.com>
Also available: Windows NT version

Run Spam Buster before your email program to delete junk email from your inbox. Spam Buster automatically flags junk email and lets you delete them and other messages simply by marking them. Since Spam Buster doesn't download the entire message it is quicker than your regular email program, which has to retrieve the entire message before you can delete it. Once Spam Buster has done its work, it can launch your regular email program for you.

Spambuster Pro

कुकुकुकुकुकुकु

Version: 2.0.5 beta 1
Revision date: July 14
Size: 14 KB
License type: Shareware
Cost: \$60
Installation period: 30 days
Home page: <http://www.cnet.com/cnet/infocenter/spambusterpro.html>
Also available: Windows NT version

Spambuster Pro sends spam from you the drive by connecting it with your mail email addresses, and against a list of known spammers. If the message is not sent to one of your valid email addresses (which you define), or if a match is found against the spammer list, the message is deleted. You can then use your regular email program to download your Spambuster mail. Spambuster can also monitor your mailbox and notify you by sound, message or highlighting your mail program when there is new, unreported mail waiting.

Continued on page 82B

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Game over?

Nope, here are 10 classic gaming Web sites

By Keith Schengill Roberts

When you were one of those people who used to memorize the positions of pieces in Pac-Man? How about all those quarters you plugged into Asteroids to die? You had just one thing in mind: stack tokens! This is the old games Web site paragon that those on the Internet and present players will find it hard to miss in the days when this list of classic gaming Web sites is for you.

1. MAME (Multiple Arcade Machine Emulator) • This is arguably the site to check out if you'd like a chance to play your favorite old arcade games on your PC. Using the MAME software and software that emulates the ROMs from the original games, you can play your old favorites again! This feature supports just under 1,500 games—no quarter needed! (Keep in mind that you'll have to track down the ROMs, which you are often allowed to keep for a limited time.)

2. Atari Gaming Headquarters • The undisputed master of classic video games, both arcade and home versions,

was Atari. While the company no longer exists, this fanpage-looking site is designed to keep the name of Atari alive. It's an amazing source of information on all things Atari.

3. ClassicGaming.com • If you are looking for the latest news on classic games, ClassicGaming.com is well worth checking out. This classic site is to become a source for information about classic arcade and home video games, both for developers and for game players. Features a Periodic Table Game of the Week and a museum.

4. The Game Collection • If you're ever wanted to check how you stack up against the rest of the gaming world, check out the Game Collection page. This is the official scoreboard for video game and pinball players. Remember that getting the highest score can be a lot of work—the highest score for Pac-Man required six hours of continuous play.

5. The Best Games • This site is dedicated to examining the 40-year history of video games. But you didn't know the first acknowledged video game was

made by a physicist from the Brookhaven National Lab who created a track game that could be played on an oscilloscope. You'll find this and other fascinating facts about video games here.

6. C. When...The Chronological History of Video Games and Computers • Another highly detailed look at the history of computing, presented in virtual book form, this useful site lists things like the Ancient Navigator (juggling old computer-related rules of play), virtual trading cards featuring classic games and computers, and plenty of other fun things.

7. The Arcade Art Museum • One of the things that attracts people to a game is the vibrant art—the look to the game. The Arcade Art Museum serves two purposes: as a database for downloading art for those who want to look at their favorite machines again, and as a source for artwork for game emulators to make your play as authentic as possible.

8. Buying An Arcade Game FAQ • Not

equipped with a more collector of your favorite old game, and instead want the real thing taking up space in your living room? Though getting a little bit long, unfortunately, this list of frequently asked questions (FAQ) and responses from 1991 tells you how to buy a game from one of the important arcade game sections.

9. Video Arcade Preservation Society (VAPS) • Having perhaps the most in an organization for every conceivable subject, VAPS is dedicated to the arcade game collector. If you want to get in touch with other collectors, or need (technical) information on the machines, chances are you will find what you need through this organization.

10. Classic Gaming Expo • This expo is dedicated to celebrating the history of video, arcade and computer games. If you want to play lots of classic games and meet their creators, this is the event to go to. This year it is being held in Las Vegas in mid-August.

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Careers & TRAINING

Team work

By Helen Bradley

Regardless of whether you're working on a project with a team or solo, you'll benefit from the tools your work process offers for tracking changes and group editing documents.

This month we look at the tools available in *Microsoft Office 2000* for tracking changes to your work and incorporating them into files that document those work as guaranteed to make even the simplest editing job easier.

Open it, modify it, save it

To take notes for every time I've worked on a document—made changes I made to a document every day in my hours before *Understandability* the words feature in Word doesn't work after you've saved and reopened a file.

If you're doing careful data on, you may have saved previous versions of your document as separate files using File, Save As and giving each "version" a different name. But did you know Word offers a simpler way to save and manage different versions of a document and that it does it all in one file?

To view different versions of a Word document select File, Versions and select Save Now. You'll be prompted to enter a comment about the reason you're saving (so you can associate it with some explanatory text) and select OK. Now you have a saved version of your document as it looks at that moment. If you then make changes to the document and save it again using File, Save Now, you'll have a second copy—this time incorporating the additional changes you've made.

Continued on page 126

What kind of skills do you need in today's IT job market?

By Bruce McWhirter

If you've been following the job market, you probably know there is a high demand for skilled knowledge workers—along with a corresponding shortage of candidates. The demand comes not so much from the information technology (IT) sector itself, however, but from other sectors of companies that need computer technology, not only as company technology.

According to the International Data Corporation's (IDC) 1999 study, *The Evolution of Human Capital*, 60 percent of the companies surveyed said they would be hiring IT professionals in the next 12 months. Even more of the IT personnel said they would require the contracted services of Web development companies and IT consultants.

So, market demand is clear enough. What is not so clear is how to become qualified to enter that market, and even then, how to stay on top.

What employers want

Being "qualified" in the IT industry used to mean having technical ability alone. There was little or no requirement to know business or organizational processes or to develop new skills outside of the demands of the job that is your core.

Today's employers are looking for business-oriented individuals with an extensive, up-to-date technological skillset and the ability to

continually upgrade those skills. The IT industry and the technologies supporting it change so rapidly that a person's capacity to learn and develop new skills is as important as the technological skills they bring to a company.

Many real-world workplaces are encouraging people to "self-manage" their careers. This means encouraging people to learn and staying one step ahead of the technology. If you want to stay relevant in a fast-changing and busy labor market, it is important to have a plan because everything that will have changed in the time there will be a product of people who already have that expert view.

The "experience gap"

A common hurdle faced by many new IT workers is the experience gap. Job postings consistently ask for "years of experience," intimidating newly graduated students but less so when the requirement often reflects an employer's need to ensure that the candidate can perform in the fast-paced IT environment. They want employees who can adapt to change in addition to having the relevant technical experience.

There are ways, however, to bridge the experience gap. Many students encourage new IT workers to gain experience on their own. If they can't get it in the workplace right away, interesting themselves in your own Web sites, exploring the Internet or acting as a "freelancer" help build support persons for charitable organizations will all help you present an alternative to specific experience.

Continued on page 122



By Gene Williams

Last month we had our "get things organized with Linux" feature. This month the focus is on the preparation to prepare a pre-installation checklist (that our magazine distribution is the

11th OpenOffice edition of Red Hat 6.0, which you can get from <http://www.redhat.com>.)

Let's get started with a philosophical warning: Don't take a deep breath and think about your approach to learning Linux. If it were to offer a single bit of advice, it would be this: go slow. Don't try to fit in Linux between your time to be printed, be reviewed, get content, and

Ready, get set ...

Linux for Newbies Part 2

Many users in a typical Linux notebook you store books your computer. There's a lot to learn. Keeping notes will help you remember things and track your progress.

Also, be prepared to invest time in serious reading of both print and online material. Linux comes with a huge volume of documentation and the Internet provides even more. There are many well-written books to Linux and Windows and you should start building a reference library. A book I recommend to go along with this series is *Linux for Dummies*, Second Edition (2000, 0-7897-1246-8, \$27.95).

Along the way, I'll suggest a few titles.

Look upon your Linux adventure as a long-term project.

A thorough technical manual with lots of detailed, but interesting, material. If you proceed step by step, you won't be overwhelmed. In the process you'll learn a great deal about computing in general. Linux doesn't "change you down" the way some well-known popular operating systems do.

Compatibility check

Sufficiently warned up? Let's get started. The most important thing to do right now is take a complete hardware inventory of your target PC. You need to know exactly what pieces of hardware you're got and what their settings are. Here's a basic checklist:

• What type of CPU and how much RAM do you have?

Continued on page 122

Mass spam

Continued from page 112

SpamKiller

System: OS/2
 Release date: July 95
 Size: 514KB
 License type: Share
 Cost: \$29.95
 Evaluation period: 30 days
 Home page: <http://www.spamkiller.com>

Also available: Windows NT version
 SpamKiller is very powerful, yet easy to use. Five different filter types let you screen any message past, including the ones, headers and country codes. The Panda file scanner finds

all normal email makes you, and copies are made of all automatically filtered mail. The Filter Wizard makes it easy to add your own filters, and registered users receive online updates. Both automatic and manual complaints are supported, and you can make past ones anonymous. SpamKiller also handles any number of accounts.

Sponsor: Mammor

Version: 1.2
 Release date: July 10, 1999
 Size: 1.4 MB
 License type: Shareware
 Home page: <http://www.papa.com/mammor.com>

Also available: Windows NT version

As easy to use anti-spam program, Sponsor Mammor works in conjunction with your mail program to auto-blocking spams. You can then easily delete them to your mail program. The rules of what is marked as spam are easily modified to suit your taste.

Mac Picks**Spam Scripts**

For Mac Outlook Express



Version: 1.0
 Release date: March 27

See #1450

License type: Shareware

These AppleScripts for Mac Outlook Express 4.5 are a bit crude, but useful for screening and rejecting spams. The first is a filter that checks for suspicious sender addresses (i.e. sender's address doesn't match originating domain). It also optionally checks to see if your address is specifically listed as a recipient. The other script is used to report spams. The destination can be determined by the script's internal database: <http://www.mactel.net>, or Apple Cops. In order of increasing effectiveness, the report is posted and informative, lists the options of including comments about spam in personal e-mails, and can also send copies of the complaints to the appropriate authorities. Q

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What skills do you need today?

Continued from page 169

How to find**the technological training you need**

Training comes in a wide variety of forms. It ranges from individual courses to business applications and specific languages to full diplomas or degrees in computer science. Often the most efficient and fastest way to gain marketable skills is to earn a diploma. A

good institution will have done the market research for you, and will teach the skills most in demand.

Be sure, however, let a school make your curriculum decisions entirely. Research job postings to see what skills are most sought after. Go on the Web and visit job sites. Call employers and speak to their human resources or IT departments. Compare our listings offered to what you've learned from your research.

When planning your training, choose an organization that will teach you a strong core of fundamental knowledge and important working learning skills and disciplines.

Technical skills most in demand

In IT, one thing is for sure: one day will likely cool down or be replaced eventually. Stick up with "building block" skills. If you know a few to what is currently in demand, you will create a highly marketable skillset that

will ensure your success.

On the networking side, a core foundation knowledge of LAN (local area network), WAN (wide area network), Windows NT, UNIX and TCP/IP (transmission control protocol) are generally in demand. Linux is growing rapidly, and network-monitoring products such as HP OpenView, Cisco Works and Vintal Signet are increasingly in demand.

On the programming side, COBOL is still an essential skill for working with older legacy systems, although with the completion of last 2008 (Y2K) projects it will be in demand less. Object-oriented programming (OOP) with Java and C++ is becoming essential. Programmers should also know Visual Basic since it is one of the most widely used client-server software development tools.

There are several key specialized areas where technology workers are in particular demand.

The Internet: The Internet is a key area for job growth and development. Everyone is going online, and an enormous range of jobs is being created to help manage "hot-spots" online: printers, both networking and programming skills are required, programming to build and maintain the Web are also networking to administer it. The Internet languages in demand are Java, HTML, C++, Visual Basic, Oracle PL/SQL, Perl, and recently XML (extensible markup language).

Because of the visual nature of the Web, many people who gain proficiency in graphics applications so they can design Web sites from the creative end as well. Popular products are Adobe Photoshop, Adobe Flash, Quark XPress, GIMP, GIF and PageMill.

Electronic: Internet-based e-commerce is a rapidly growing field that has great job potential. A combination of Internet security, transaction processing, data warehousing, and Web design skills is the best tool set you can develop. Internet security is the most important area and the one that businesses are most concerned about.

Database management: Database man-agement is another field where workers are needed by companies to implement and manage their massive critical systems. Oracle and Microsoft SQL Server are leaders in this area, and should be included in your skillset to prepare in this field.

Soft skills: Employees are also increasingly looking for strong soft skills in their candidates and in fact emphasize them when detailing what they need. ISCT's survey of employers ranked communication skills, project management skills and interpersonal skills top in their list of most important soft skills.

Similarly, a recent survey completed by one of our divisions, The Institute for Computer Studies, revealed that employers are soft skills as an essential requirement and an area where many candidates are deficient. They also cited team-building, managing external partners, interpersonal skills and project management as highly valued areas.

Project management has in fact grown so much in demand that the industry has recognized the need to formalize a system the method of organizing projects. The Project Management Institute has created The Project Management Body of Knowledge (PMBOK). Certification knowledge in this field will greatly enhance your marketability.

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**GET OUT IN FRONT. AND STAY THERE.**

A good guide for eBay newbies

By Keith Schwabert-Roberts

It's surprising that there aren't more books about eBay recently available. Since its humble beginnings in a place for collectors

to buy and trade Pen Dispensers online, eBay has become the de facto site for individuals to sell and acquire items on the Web. This just-issued book by David Prince is a pretty good guide to both buying and selling items on eBay.

The book is divided into two main sections aimed at those who want to buy and those who want to sell. Prince is an experienced buyer and seller of eBay, and he offers advice on how to buy low and sell high.

The buying section begins with the basics on eBay pointers. It explains such things as search engines, and strategies on how and when to bid on an item. The author is an expert on "sniping," which is the practice of placing a winning bid at the final possible moment. Misapprehending the odds of this practice is what the author says if you are interested in learning this technique. Prince has a winning tip on this subject:

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112 pages, 112 pages, 112 pages

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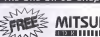
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We also have industry driven special programs that run full time on weekdays from 8:30 to 4:30 from six months to a year. For post-graduate students the Bachelor of Technology in Computer Systems degree is available. Please see the BScTech section for complete details.

We hope that you find the information in this publication useful and we urge you to register early. Some of our courses are filling now. You may register in person at our Downtown and Burnaby locations, by phone, by fax or on-line, via the Internet. All of our courses require that you have a minimum of BC High School English or its equivalent. Please read the details in our policy information section regarding prerequisites, withdrawals and refunds.

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1. You must have passed the original course with 60% or more.
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3. Repeat courses are not refunded.
4. Course will be repeated upon your fault. Fees only the original drop will be charged.

Class Times

Generally, a minimum of 45 minutes for three hours per night, one or two nights a week. However, through Post-Secondary Studies, classes normally begin:

Burnaby	18:45
Downtown campus	17:30

Classes being held on Saturday or Sunday normally begin at 9:00 AM. Other times will be specified down in the course listing.

Class Capacity

There is a full power of 15 to 20 people in a regular class.

- Each class will have other students in exceptional or outside class in order that other students will be able to sit in a few minutes early. There is no need to guarantee that you will be accepted.
- Maximum class size.

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1. Students who are approved for a program of studies are expected to register and complete courses on a continuous basis.
2. Where a student has not completed a course from their approved program of study that is part of their continuous academic program, then that student will be considered to have abandoned the program.
3. Throughout the duration of the program, a student is considered a member of the academic team where they are expected to register and complete courses from their approved program of study. Students who exceed the two-term maximum will be considered to have abandoned the program.
4. Students who have abandoned their approved program of study will not be considered to have approved to apply for program approval for a second Certificate, BScTech or diploma program. If a student who has been considered to have abandoned the program.

Late-breaking
Course Information

Because of rapid change in technology, new courses are being developed monthly and the publication of this flyer. Call the Computer Systems Technology for more details information for 2001-2002. Contact us for a copy for the latest course information.

Prerequisites

Students who are not able to take a course without prerequisites may be advised to take a course.

Prior Learning Assessment

Many students possess skills and knowledge which are equivalent to the requirements of various BCIT courses but which are not generally recognized by a post-secondary educational institution and which will generally demonstrate that they have the competence to enter advanced appropriate courses credit on the basis of an assessment of their learning. To learn whether the program applies to you, the fee structure, or to apply for assessment, contact the PAA Coordinator by e-mail: paac@bcit.ca.

Correspondence
Information

CSEED	2001	Computer Systems Technology (BSc)
CSEED	1000	Exploring Windows (BSc)
CSEED	1400	Programming Windows & Networks (BSc)
CSEED	1400	Visual Basic 1 (BSc)

Please see the correspondence section on page 11 for more details.

CSEED currently has three new materials through Computer Education. More are planned for next year.

For program details, call 604-673-1111.

Course Materials

What you will need to take a course is supplied for a fee. The fee is included in the course fee. There is no need to provide materials in advance. There is no need to provide materials in advance.

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